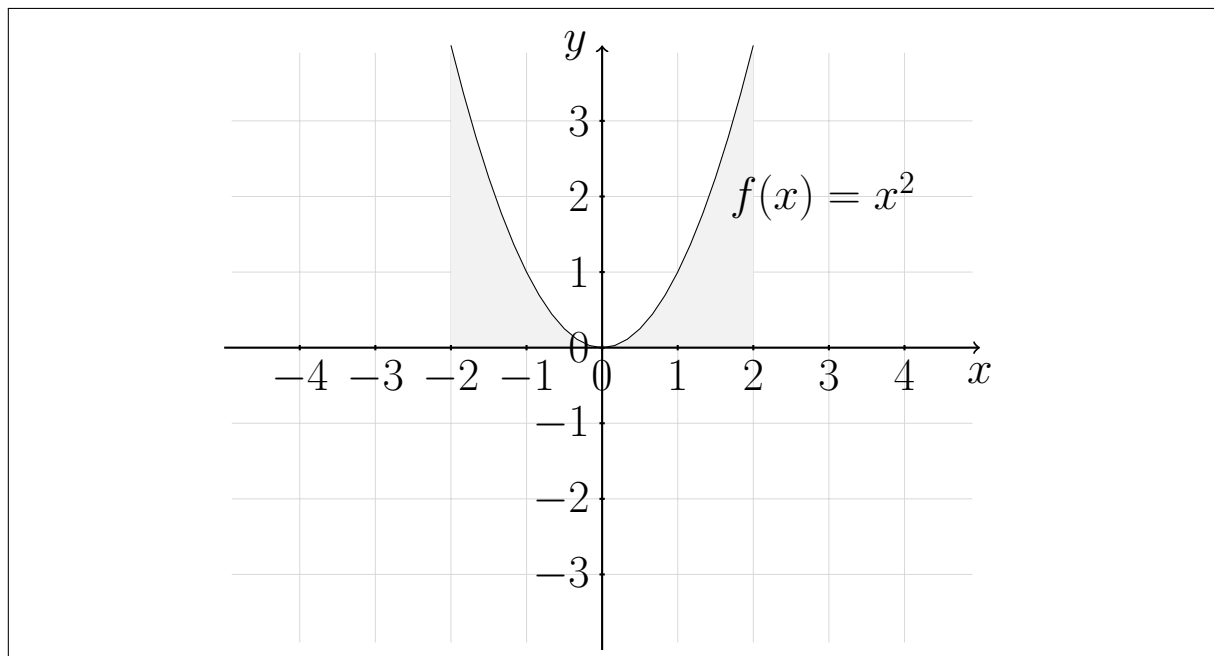


# Cartesian Coordinate System.

```

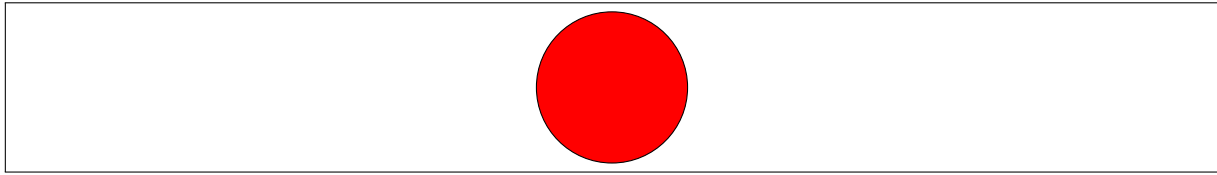
1  \begin{tikzpicture}
2    \draw[very thin, gray!30, step=1 cm] (-4.9,-3.9) grid
      (4.9,3.9);
3    \fill [gray!10, domain=-2:2, variable=\x]
4      (-2, 0) -- plot ({\x}, {\x*\x}) -- (2, 0) -- cycle;
5    \draw [thick] [->] (-5,0)--(5,0) node[right, below] {$x$};
6    \foreach \x in {-4,...,4}
7      \draw[xshift=\x cm, thick]
8        (0pt,-1pt)--(0pt,1pt) node[below] {$\x$};
9    \draw [thick] [->] (0,-4)--(0,4) node[above, left] {$y$};
10   \foreach \y in {-3,...,3}
11     \draw[yshift=\y cm, thick] (-1pt,0pt)--(1pt,0pt) node
12       [left] {$\y$};
13   \draw [domain=-2:2, variable=\x]
14     plot ({\x}, {\x*\x}) node[right] at (1.5,2) {$f(x)=x$
15       ^2$};
16 \end{tikzpicture}

```



red circle

```
1
2 \begin{tikzpicture}
3   \draw[fill=red] (0,0) circle (1);
4 \end{tikzpicture}
```



red circle

```
1
2 \begin{tikzpicture}
3   \draw[fill=red] (0,0) circle (1);
4 \end{tikzpicture}
```

